

## PATENT COOPERATION TREATY 522195

From the INTERNATIONAL BUREAU

**PCT**

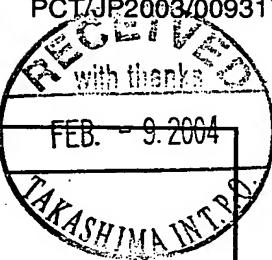
## NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

24 JAN 2004

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Date of mailing (day/month/year) 29 January 2004 (29.01.2004)
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Applicant's or agent's file reference 09571
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**IMPORTANT NOTICE**

International application No. PCT/JP2003/009317	International filing date (day/month/year) 23 July 2003 (23.07.2003)	Priority date (day/month/year) 23 July 2002 (23.07.2002)
Applicant	KURARAY CO., LTD. et al	

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, AZ, BY, CH, CN, CO, DE, DZ, EP, HU, KG, KR, MD, MK, MZ, RU, TM, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BZ, CA, CR, CU, CZ, DK, DM, EA, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 29 January 2004 (29.01.2004) under No. WO 2004/009551

4. **TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase**

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a demand for international preliminary examination, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland
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Authorized officer
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Gijsbertus Beijer - Carlos Roy
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24 JULY 2003

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09317

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C07D213/22, 401/04, 405/04, 409/04, 413/04, 417/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C07D213/22, 401/04, 405/04, 409/04, 413/04, 417/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

REGISTRY (STN), CAPLUS (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5693611 A (ELI LILLY AND CO.), 02 December, 1997 (02.12.97), All references & EP 881907 A & AU 1851797 A & GB 9603151 A & WO 97/27864 A1 & CA 2244238 A & JP 2001-503015 A	1-7
Y	US 6169184 B1 (BASF AG.), 02 January, 2001 (02.01.01), All references; particularly, columns 2 to 6; column 10, lines 30 to 45 & AU 4456497 A & TW 448158 B & DE 19636995 A & WO 98/11069 A1 & EP 931068 A & CN 1230181 A & HU 9904096 A & JP 13-500140 A	1-7

 Further documents are listed in the continuation of Box C.  See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 18 September, 2003 (18.09.03)	Date of mailing of the international search report 07 October, 2003 (07.10.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09317

## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages.	Relevant to claim No.
Y	BONNET, V.; MONGIN, F.; TRECOURT, F.; QUEGUINER, G.; KNOCHEL, P., Synthesis of substituted pyridines, quinolines and diazines via palladium-catalyzed cross-coupling of aryl Grignard reagents., Tetrahedron, Vol.58, No.22, 20 May, 2002 (20.05.02), Vol.58, No.22, pages 4429 to 4438; particularly, page 4429, right column, 5th line from the bottom to page 4430, right column, line 5; Schem 2	1-7
Y	JP 2000-80082 A (Kuraray Co., Ltd.), 21 March, 2000 (21.03.00), All references; particularly, Claims; Par. No. [0013] (Family: none)	1-7
A	HEIRTZLER, F.; NEUBURGER, M.; ZEHNDER, M.; CONSTABLE, E.C., Preparation and Characterization of Oligo (2,2-bipyridy) pyrazines, Liebigs Ann./Recueil, 1997, pages 297 to 301, all references; particularly, page 297, Scheme 1	1-7
A	WO 98/07700 A1 (BASF AG.), 26 February, 1998 (26.02.98), All references; particularly, description, pages 36 to 37 & AU 4118397 A & DE 19633746 A & EP 920415 A & JP 2000-517303 A	1-7
A	WAKABAYASHI, S.; TANAKA, T.; KUBO, J.; UENISHI, J.; OAE, S.: A Cross-coupling Reaction of Methylsulfinylarene., Bull.Chem.Soc.Jpn., 1989, Vol.62, No.12, pages 3848 to 3850, all references	1-7